CIVIL XPERTS
ISO 9001:2008
CONSULTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/LM/W.No.15/2017-18 Date: 04.08.2017

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri.Lakkappa M,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/06/2017-18 Dateed:20.06.2017
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	150 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	410 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 15days from the date of testing.

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL
XPERTS
ISO 9001:2008
NTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

CECTC/BBMP/LM/W.No.15/2017-18

Date : 05.08.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

lient : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of Work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Date of Testing : 05.08.2017

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	53	5.30	5.30	94.7	90-100
2.36	180	18.00	23.30	76.7	75-100
1.18	145	14.50	37.80	62.2	55-90
600 Micron	215	21.50	59.30	40.7	35-59
300 Micron	226	22.60	81.90	18.1	8-30
150 Micron	128	12.80	94.70	5.3	0-10

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL XPERTS
ISO 9001:2008
ULTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/LM/W.No.15/2017-18

Date : 05.08.2017

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of Work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Date of Testing : 05.08.2017

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	53	5.30	5.30	94.7	90-100
2.36	180	18.00	23.30	76.7	75-100
1.18	145	14.50	37.80	62.2	55-90
600 Micron	215	21.50	59.30	40.7	35-59
300 Micron	226	22.60	81.90	18.1	8-30
150 Micron	128	12.80	94.70	5.3	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from the date of testing.

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL
XPERTS
ISO 9001:2008
JLTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/LM/W.No.15/2017-18 Date : 06.08.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of Work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Date of Testing : 06.08.2017

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	165	1.10	1.10	98.90	95-100
20	8945	59.63	60.73	39.27	30-70
10	3154	21.03	81.76	18.24	10-35
4.75	2364	15.76	97.52	2.48	0-5

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from the date of testing.

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL
XPERTS
ISO 9001:2008
LTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/LM/W.No.15/2017-18 Date : 05.08.2017

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of Work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Date of Testing : 05.08.2017

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	128	2.6	2.6	97.4	95-100
10	2548	51.0	53.5	46.5	25-55
4.75	1963	39.3	92.8	7.2	0-10

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15days from the date of testing.

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL
XPERTS
ISO 9001:2008
LTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Job No.: CECTC/BBMP/LM/W.No.15/2017-18 Date: 14.08.2017

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Contractor : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of Work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Sample Identification : 8mm,10mm, 12mm, 16mm, TMT Fe 500 Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 14.08.2017

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.390	532	543	14.0
2	Fe 500	10	0.620	548	556	15.0
3	Fe 500	12	0.89	555	568	16.0
4	Fe 500	16	1.590	569	577	17.0

Remarks:

The results pertain to the samples received and tested.

Any correction in the report will make this report invalid.

This report without prior written approval should not be reproduced or published in full or part.

Samples will be disposed after 15 days from the date of issue of test certificate

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner

IVIL
XPERTS
ISO 9001:2008
LTANTS & TESTING CENTER

174, Sri Ranga Complex
Amrutha Nagar Main Road
New Bank Colony, Konanakunte
Bangalore - 560 062.
Mobile : +91 97429 59595
Tele/Fax : 080-2632 2565
E-mail : civilexpertsltd@gmail.com
URL : www.civilexperts.in

NABL ACCREDITED AS PER ISO/IEC 17025:2005

Lab No.: CECTC/BBMP/LM/W.No.15/2017-18 25.09.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.

Agency : **Sri.Lakkappa M,** Contractor, Bangalore.

Name of the work : Construction and Repairs to Culverts in Dasarahalli in Ward no.15 Dasarahalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/06/2017-18 Dateed:20.06.2017

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2017	25.09.2017	8.163	489.3	21.75
2	28.08.2017	25.09.2017	8.093	465.2	20.68
3	28.08.2017	25.09.2017	8.170	499.7	22.21

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For Civil Experts Consultants

Authorised Signatory

Scanned by CamScanner